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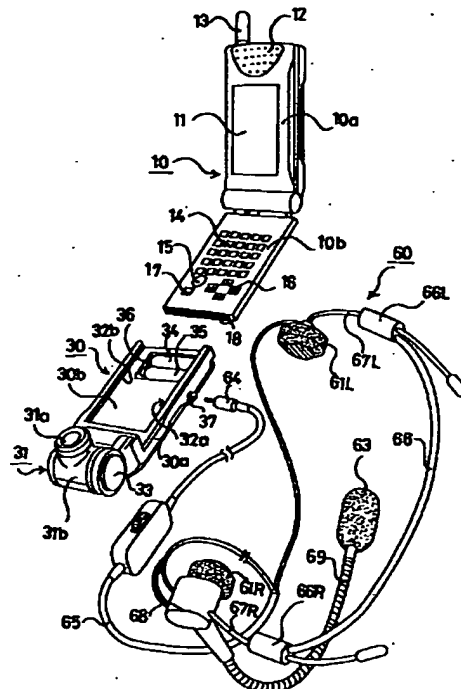
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(54) 【発明の名称】 送受話具を有する携帯型情報通信機用アダプタ

(57) 【要約】

【課題】 アダプタ用の送受話具を使用し、情報通信機の表示部の画像・映像を目視しながら送受話することができる携帯型の電話機等の情報通信機用アダプタを提供すること。

【解決手段】 アダプタ30には、電話機10との間で送受話信号を授受させるための回路に接続したジャック37を設け、一方、スピーカ部61R、61Lを有するヘッドホンにマイクロホン63を連結させたアダプタ用の送受話具60を設け、この送受話具60をケーブル65によってアダプタ30のジャック37に電気接続する構成となっている。



【特許請求の範囲】

【請求項1】 文字や画像・映像を表示する表示部を有する携帯型の電話機等の情報通信機に装着し、情報通信機によって画像・映像信号を送受信するためのアダプタにおいて、上記アダプタには情報通信機との間で送受信信号を授受させるための回路端子手段を設け、一方、受話器とマイクロホンとを連結させたアダプタ用の送受話具を設け、この送受話具をケーブルによって上記回路端子手段に電気接続する構成としたことを特徴とする送受話具を有する携帯型情報通信機用アダプタ。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】この発明は、携帯電話機やPHS電話機などの携帯型情報通信機に装着し、画像・映像信号を送受信するためのアダプタに関し、具体的には、受話器にマイクロホンとを連結した送受話具を備えたアダプタに係る。

【0002】

【従来の技術】携帯型情報通信機である携帯電話器やPHS電話機は送受話専用機であるため、画像・映像信号を送受信することができないが、今日では、パソコンやデジタルカメラから画像・映像信号を携帯型の電話機に入力し、この電話機により画像・映像信号を送受信する通信システムが開発されている。

【0003】また、撮像機能と画像・映像信号の処理機能とを備えたアダプタを携帯型の電話機に装着し、アダプタと情報通信機の間で画像・映像信号を直接授受させ、画像・映像信号を電話機によって送信し、また、受信し、携帯型の電話機相互間で画像・映像信号を送受信できるようにしたアダプタ付の電話機が開発されている。このような電話機は、受信した画像・映像を表示し、また、送信する画像・映像をモニタできる表示部を備えている。

【0004】

【発明が解決しようとする課題】アダプタを装着して画像・映像信号を送受信する携帯型の電話機は、受信した画像・映像を表示部に表示し、また、送信する画像・映像を表示部に表示してモニタすることができるが、この種の電話機は、スピーカ部を耳に当て、マイク部を音声口の近くに位置させて送受話する関係で、送受話中は表示部に映し出された画像・映像を見ることができない。

【0005】このような電話機は送受信する画像や映像信号を一旦メモリに記憶させ、送受話後に画像・映像信号をメモリから読み出して表示部に表示させることも可能であるが、しかし、表示部に映し出された画像や映像を直接に見ながら送話し、また、受話することができれば、実情に即した最も好ましい電話通信システムになる。

【0006】本発明は上記した実情にかんがみ、アダプタ用の送受話具を使用し、情報通信機の表示部の画像・

映像を目視しながら送受話することができる携帯型の電話機等の情報通信機用アダプタを提供することを目的とする。

【0007】

【課題を解決するための手段】上記した目的を達成するため、本発明は、文字や画像・映像を表示する表示部を有する携帯型の電話機等の情報通信機に装着し、情報通信機によって画像・映像信号を送受信するためのアダプタに関する。

10 【0008】そして、本発明のアダプタには、情報通信機との間で送受信信号を授受させるための回路端子手段を設け、一方、受話器とマイクロホンとを連結させたアダプタ用の送受話具を設け、この送受話具をケーブルによってアダプタの回路端子手段に電気接続する構成となっている。

【0009】

【作用】情報通信機にアダプタを装着することにより、この情報通信機での送受話通信の他に、情報通信機によって画像・映像を送受信することができる。そして、送受信された画像・映像を情報通信機の表示部に映し出すことができる。

【0010】また、送受話具をアダプタに接続すれば、この送受話具を使って送受話通信を行なうことができる。具体的には、受話器を耳に当てマイクロホンを発声器官である発声口の近くとなるように送受話具をセットする。この使用状態では、アダプタを装着した情報通信機を表示部の画像・映像が目視できる範囲で送受話者より離しても送受話具によって送受話することができるから、表示部に映し出された画像・映像を直接に見ながら送話し、また受話することができる。

【0011】

【発明の実施の形態】次に、本発明の一実施形態について図面に沿って説明する。図1は携帯型の電話機10と、画像・映像信号（以下、単に「映像信号」という）を送受信するためのアダプタ30と、送受話具60とを示す斜視図である。

【0012】電話機10は公知構成のもので、扁平化した箱状の本体部10aと平板状の操作部10bとを折り畳み式に連結してあり、使用しないときは、操作部10bを本体部10aに重ね合わせるように折り畳み、使用するときは図示するように操作部10bを展開する。

【0013】この電話機10は文字や画像・映像（以下、単に「映像」という）の表示機構を備え、その表示部11が本体部10aに設けてある。また、この本体部10aには、受話スピーカ12、アンテナ13が、さらには、図面では省略してある着信ランプ、呼出音スピーカなどを備えている。

【0014】また、操作部11bには、電話ダイヤルとしてのテンキー、ファンクションキー、オンフックスイッチなどの各々のキー14の他に、マイクロホン15、

音量調節・機能選択キー16、電源スイッチ17などが備えてある。さらに、この操作部11bの一端側には、パソコンやアダプタ等と電気接続して信号授受するためのコネクタ（ピン受け）18が設けてある。

【0015】一方、アダプタ30は、薄型の長方形となっているアダプタ本体部30aの一側部に撮像部31を備えると共に、アダプタ本体部30aの両サイドにはその長手方向に沿って形成されたガイドレール32a、32bが設けてある。

【0016】撮像部31は撮影レンズを備えた筒部31aを有する回転筒31bから構成してある。つまり、回転筒31bにはC-MOS撮像素子が内装しており、撮影レンズを通して入射した被写体像光がこの撮像素子によって電気変換され、その撮像信号がアダプタ本体部30aの信号処理回路に送られる。

【0017】また、この回転筒31bはアダプタ本体部30aに一体形成した支持部33によって回転自在に支持させてある。具体的には、回転筒31bをその筒軸を中心にして回転操作することで、筒部31aを旋回させ撮影方向を変える構成となっている。

【0018】ガイドレール32a、32bは、電話機10が備える操作部10bのサイド部を嵌入させるようにして、アダプタ30を電話機10に装着させるもので、操作部10bが最終位置まで嵌入されると、アダプタ30に設けたコネクタピンが操作部10bのコネクタ18に突入し、アダプタ30が電話機10に電気接続される。

【0019】なお、アダプタ30には、撮像部31から送られる撮像信号や電話機10が受信した映像信号を処理する信号処理回路が備えてあり、この信号処理回路の信号出力端としてのコネクタピンが設けてある。

【0020】また、このアダプタ30は、電話機10の電源に対し別途の電源を備えている。本実施形態では2本の乾電池34、35を電源電池として装備しており、これら乾電池34、35を収納させる電池収納部36がアダプタ本体部30aの平面部30bに凹状部として設けてある。なお、このように設けた電池収納部36は、収納された乾電池34、35の高さが平面部30bの面に対してほぼ同じ高さとなるように形成してある。

【0021】なお、電話機10にアダプタ30を装着して送受信する場合、表示部11の映像を見ながら送話し、また、受話するために、電話機10を顔面から所定距離だけ離すようにして送受信する。そのため、このアダプタ30には、送受話具60のケーブル65によって接続するプラグ64の差し込みジャック37が設けてある。

【0022】この送受話具60は図示するように、スピーカ部（受話器）61R、61Lを備えたヘッドホンと、このヘッドホンに一体的に連結させたマイクロホン63と、先端部にプラグ64を接続し、基部を上記のス

ピーカ部61R、61Lとマイクロホン63に接続させたケース65とより構成してある。

【0023】なお、ヘッドホンは、頭載するばね性の支持杆66と、この支持杆66の両端部に設けた調節部66R、66L内を摺動させてスピーカ部61R、61Lを位置調節するばね性の調節杆67R、67Lとからなる。また、マイクロホン63は、調節杆67Rに設けた連結部68に一体的に設けてある。つまり、操作によって自在に湾曲形成できる自在継手69を連結部68より延設させ、この自在継手69の先端部にマイクロホン63が設けてある。

【0024】図2は上記した電話機10とアダプタ30に装備した電気回路を簡略して示したブロック図である。図示するように、電話機10はキー操作信号を入力したCPUの出力信号を処理し、相手方の電話番号信号を送信し、また、相手方から送られる電話番号信号を受信して信号処理する各回路と、この電話機10が備えるスピーカとマイクロホンを使って送受話するための各回路の他に、アダプタ30から送られる映像信号にしたがって表示部を映像表示させると共に、その映像信号を信号処理して送信する各回路と、また、相手方から送られた映像信号にしたがって表示部を映像表示させるための各回路を備えている。

【0025】アダプタ30は、図示するようにC-MOS撮像素子で電気変換した被写体像光の撮像信号を信号処理して電話機10に送り、また、電話機10が受信した映像信号を入力して、この映像信号を信号処理して電話機10に送り返す各回路の他に、送受話具60を使用して送受話するための送話信号と受話信号とを電話機10との間で授受する各回路を備えている。なお、被写体像光を電気変換する撮像素子としては、C-MOS撮像素子の他にCCD撮像素子を使用してもよい。

【0026】図3はアダプタ30を電話機10に装着させ、また、送受話具60をアダプタ30に接続して送受信する使用状態を示す。このようにアダプタ30を取付けることによって、撮像部31により撮影した被写体像が表示部11に映し出され、その映像信号と通話信号とが電話機10によって送信することができ、また、相手から送られた映像信号と通話信号とを受信し、受信した映像信号に応じて表示部11に映し出される映像を見ながら通話することができる。なお、送信する映像が表示部11の一方側過半部分に、受信した映像がその他方側過半部分に各々映し出される。

【0027】一方、このように使用する場合には、送受話具60を頭部にセットする。つまり、スピーカ部61R、61Lを耳に当て、マイクロホン63を音声口の近くに配設するようにヘッドホンの支持杆66を送受話者の頭部に載置し、送受話具60によって送受話できるように装備する。

【0028】電話機10はアダプタ30を取り付けたま

ま顔面より所定距離だけ離し、表示部11の映像が目視できるように手持ちしたり、また、卓上等に載置しておく。

【0029】このように装備することにより、撮像部31で撮影した映像を表示部11でモニタしながら映像信号を送信し、また、相手方から送られた映像信号を表示部11に映し出すことができるから、表示部11の映像を直接に見ながら送受話具60を使って送話し、また、受話することができる。

【0030】なお、上記のようにアダプタ30を電話機10に装着することによって、電話機10の操作部10bがアダプタ30の平面部30b上に重ね合わさるようになり、その操作部10bが電池収納部36の開放口を閉塞する。このことから、電池収納部36に収納した乾電池34、35の抜け出しが操作部10bによって防止される。このため、アダプタ30には電池収納部36の蓋体を用意する必要がない。

【0031】図4はアダプタ30を電話機10より取り外し、また、アダプタ30より送受話具60を取り外した状態を示す。アダプタ自体を保管し、また、持ち歩くような場合、コネクタピンが何等かの原因によって折り曲げられたり、破損されるようなことがあるため、ガイドレール32a、32bに嵌入させてコネクタピンを保持する保護カバー50を備えることが好ましい。

【0032】この保護カバー50は電話機10の操作部10bとほぼ同じ大きさの形状となっているが、ただ、嵌入先端側の両サイドに突出腕50a、50bが設けてある。つまり、保護カバー50をガイドレール32a、32bに嵌入させて押し進めてアダプタ30に装着することにより、アダプタ30のコネクタピンが上記の突出腕50a、50b間に位置するようになる。

【0033】また、保護カバー50をアダプタに装着すると、この保護カバー50がアダプタ30の平面部30bと重り合うことから、電池収納部36の開放口が保護カバー50によって閉塞される。この結果、アダプタ30のみを持ち運ぶような場合であっても、乾電池34、35の抜け出しが保護カバー50によって防止される。

【0034】以上、一実施形態について説明したが、本発明は携帯電話機やPHS電話機のアダプタにかぎらず、その他の同様の携帯型情報通信機に使用するアダプタとして実施することができるが、送受話具60につい

ては、マイクロホンを連結させたイヤホンによっても構成することができる。

【0035】

【発明の効果】上記した通り、本発明は、画像・映像信号を送受信するためのアダプタに、情報通信機との間で送受信信号を授受させるための回路端子手段を設け、受話器とマイクロホンとを連結させたアダプタ用の送受話具を上記の回路端子手段に電気接続して送受話通信する構成としたことから、情報通信機自体を使用して送受話できる他、情報通信機の表示部に映し出された映像を見ながら送受話具を使って送受話することができる。

【図面の簡単な説明】

【図1】携帯型の電話機と、アダプタと、送受話具とを示す斜視図である。

【図2】電話機とアダプタに装備させた電気回路の簡略的なブロック図である。

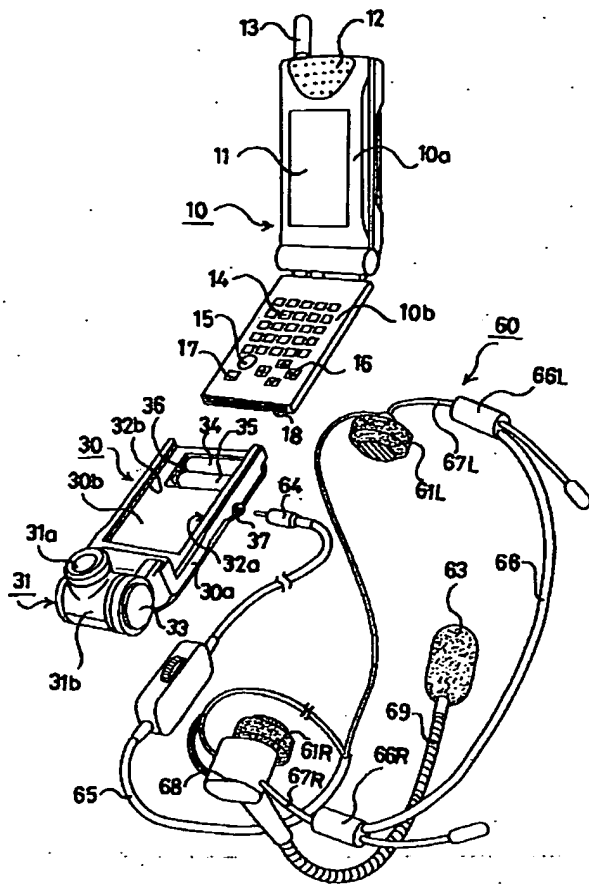
【図3】電話機にアダプタを装着すると共に、アダプタに送受話具を取付けた使用状態を示す斜視図である。

【図4】電話機より取り外したアダプタと保護カバーとを示す斜視図である。

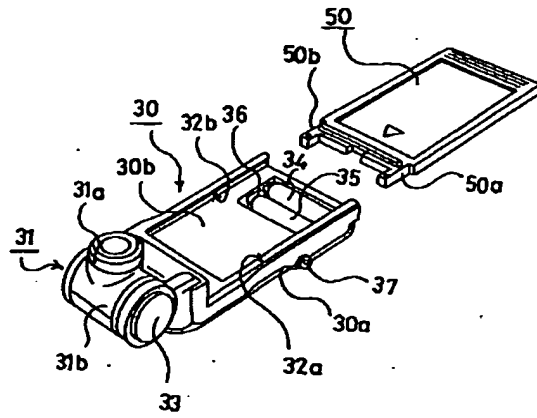
【符号の説明】

- 10 電話機
- 10a 本体部
- 10b 操作部
- 11 表示部
- 12 スピーカ
- 15 マイクロホン
- 18 コネクタ
- 30 アダプタ
- 30a アダプタ本体部
- 31 撮像部
- 32a、32b ガイドレール
- 34、35 乾電池
- 36 電池収納部
- 37 ジャック
- 50 保護カバー
- 60 送受話具
- 61R、61L スピーカ部
- 63 マイクロホン
- 64 プラグ
- 65 ケーブル

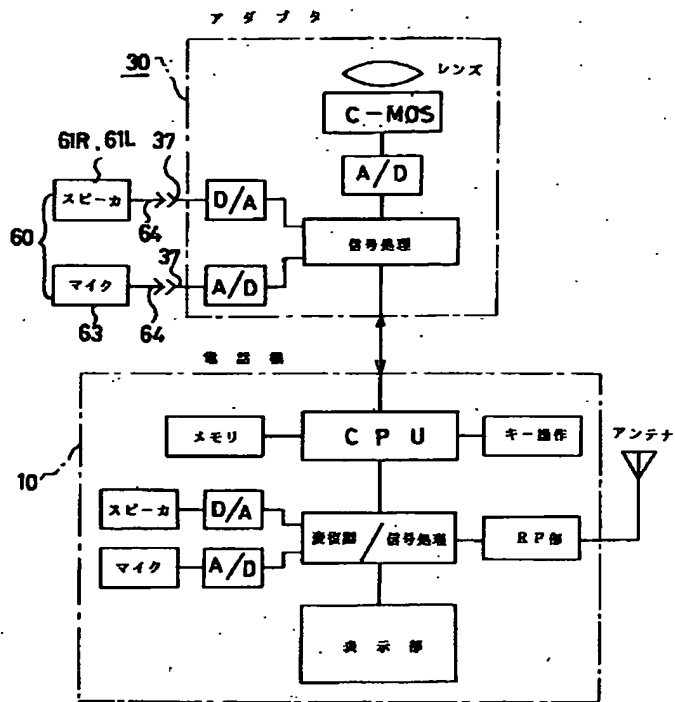
【図1】



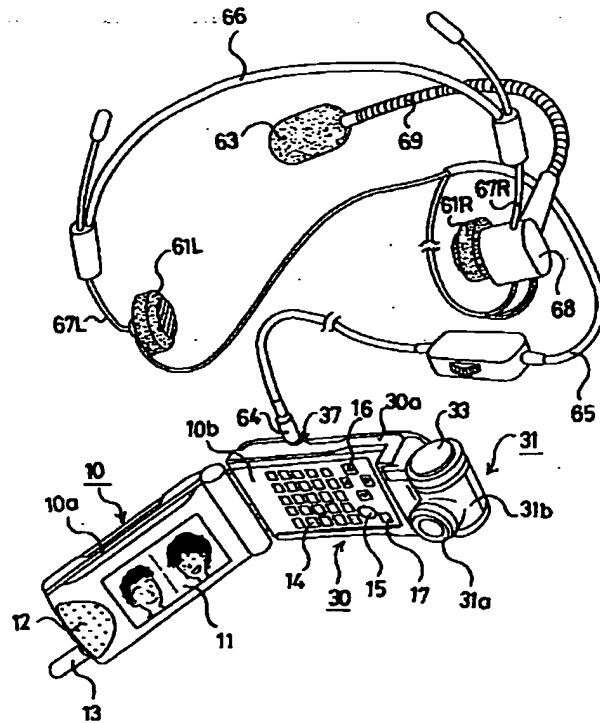
【図4】



【図2】



【図3】



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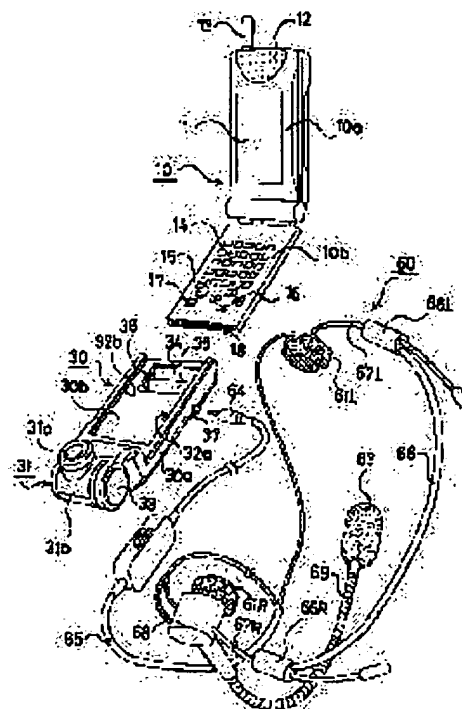
(72)Inventor : ABE SHOZO

(54) ADAPTOR FOR PORTABLE INFORMATION COMMUNICATION EQUIPMENT HAVING HANDSET

(57)Abstract:

PROBLEM TO BE SOLVED: To provide the information communication equipment adaptor for a portable telephone set by which call transmission/reception is made while viewing an video image on a display section of the information communication equipment by using an adaptor use handset.

SOLUTION: The adaptor 30 is provided with a jack connecting to a circuit that sends/receives a transmission reception signal with a telephone set 10, and an adaptor use handset 60 is formed by connecting a microphone 63 to a headphone having speaker sections 61R, 61L, and the handset 60 connects electrically to the jack 37 of the adaptor 30 through a cable 65.



LEGAL STATUS

[Date of request for examination]

03.09.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION
TECHNICAL PROBLEM MEANS OPERATION DESCRIPTION OF DRAWINGS DRAWINGS

[Translation done.]

*** NOTICES ***

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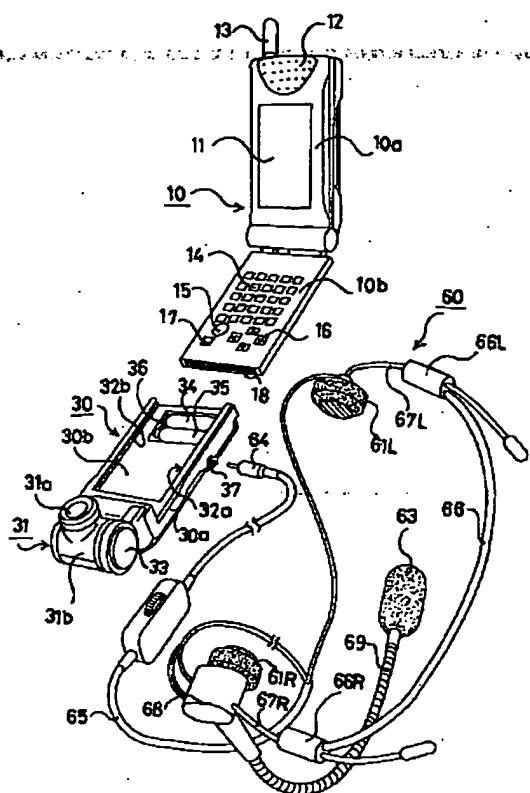
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CLAIMS

[Claim(s)]

[Claim 1] In the adapter for equipping information transmitters, such as telephone of the pocket mold which has the display which displays an alphabetic character, and an image and an image, and transmitting and receiving an image and a video signal with an information transmitter The circuit terminal means for making the above-mentioned adapter deliver and receive a transmission-and-reception talk signal between information transmitters is established. The adapter for pocket mold information transmitters which has the transmission-and-reception talk implement characterized by considering as the configuration which, on the other hand, forms the transmission-and-reception talk implement for adapters with which the earphone and the microphone were made to connect, and carries out electrical connection of this transmission-and-reception talk implement to the above-mentioned circuit terminal means with a cable.

[Translation done.]



[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] Pocket mold information transmitters, such as a portable telephone and PHS telephone, are equipped with this invention, and it relates to the adapter specifically equipped with the transmission-and-reception talk implement which connected the microphone with the earphone about the adapter for transmitting and receiving an image and a video signal.

[0002]

[Description of the Prior Art] Although an image and a video signal cannot be transmitted and received since the cellular-phone machine and PHS telephone which are a pocket mold information transmitter are a transmission-and-reception talk special-purpose machine, an image and a video signal are inputted into the telephone of a pocket mold from a personal computer or a digital camera, and the communication system which transmits and receives an image and a video signal with this telephone is developed by the end of today.

[0003] Moreover, equip the telephone of a pocket mold with the adapter equipped with the image pick-up function and the processing facility of an image and a video signal, and an image and a video signal are made to deliver and receive directly between an adapter and an information transmitter, and an image and a video signal are transmitted with telephone, and it receives, and the telephone with an adapter which enabled it to transmit and receive an image and a video signal between [of a pocket mold] telephones is developed. Such telephone is equipped with the display which can carry out the monitor of the image and the image which displays the received image and image, and is transmitted.

[0004]

[Problem(s) to be Solved by the Invention] Although the monitor of the image and the image which the telephone of the pocket mold which equips with an adapter, and transmits and receives an image and a video signal displays the received image and image on a display, and is transmitted can be displayed and carried out to a display This kind of telephone cannot apply the loudspeaker section to a lug, and a transmission-and-reception during the conversation cannot see the image and image projected on the display by the relation which the microphone section is located near the voice opening and carries out the transmission-and-reception talk.

[0005] Although it is possible for such telephone to make memory once memorize the image and video signal which are transmitted and received, to read an image and a video signal from memory after the transmission-and-reception talk, and to also make it display on a display, however if a receiver can be transmitted and carried out, looking at the image and image which were projected on the display directly, it will become the most desirable telephone communication system adapted to the actual condition.

[0006] This invention uses the transmission-and-reception talk implement for adapters in view of the above-mentioned actual condition, and it aims at offering adapters for information transmitters, such as telephone of the pocket mold which can carry out the transmission-and-reception talk, viewing the image and image of the display of an information transmitter.

[0007]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, information transmitters, such as telephone of the pocket mold which has the display which displays an alphabetic character, and an image and an image, are equipped with this invention, and it relates to the adapter for transmitting and receiving an image and a video signal with an information transmitter.

[0008] And the circuit terminal means for making the adapter of this invention deliver and receive a transmission-and-reception talk signal between information transmitters is established, on the other hand, the

transmission-and-reception talk implement for adapters with which the earphone and the microphone were made to connect is formed, and it has composition which carries out electrical connection of this transmission-and-reception talk implement to the circuit terminal means of an adapter with a cable.

[0009]

[Function] By equipping an information transmitter with an adapter, an image and an image can be transmitted and received with the information transmitter other than a transmission-and-reception talk communication link with this information transmitter. And an image and the image transmitted and received can be projected on the display of an information transmitter.

[0010] Moreover, if a transmission-and-reception talk implement is connected to an adapter, a transmission-and-reception talk communication link can be performed using this transmission-and-reception talk implement. A transmission-and-reception talk implement is set so that an earphone may be applied to a lug and it may specifically become near the utterance opening which is a vocal organ about a microphone. In this busy condition, since the transmission-and-reception talk can be carried out with a transmission-and-reception talk implement even if it detaches the information transmitter equipped with an adapter from a transmission-and-reception speaker in the range which can view the image and image of a display, a receiver can be transmitted and carried out, looking at directly the image and image projected on the display.

[0011]

[Embodiment of the Invention] Next, 1 operation gestalt of this invention is explained along with a drawing. Drawing 1 is the perspective view showing the telephone 10 of a pocket mold, the adapter 30 for transmitting and receiving an image and a video signal (only henceforth a "video signal"), and the transmission-and-reception talk implement 60.

[0012] Telephone 10 folds up box-like body section 10a which is the thing of a well-known configuration and carried out flattening, and plate-like control unit 10b, it folds them up so that control unit 10b may be laid on top of body section 10a, when having connected with the formula and not using it, and when using it, it develops control unit 10b so that it may illustrate.

[0013] This telephone 10 is equipped with the display device of an alphabetic character, or an image and an image (only henceforth a "image"), and that display 11 is formed in body section 10a. Moreover, the receiver loudspeaker 12 and the antenna 13 equip this body section 10a with an arrival-of-the-mail lamp, a ringing-tone loudspeaker, etc. which have been omitted in the drawing further.

[0014] Moreover, control unit 11b is equipped with the microphone 15, volume control / function selection key 16, the electric power switch 17, etc. other than each keys 14, such as a ten key as a telephone dial, a function key, and a switch on hook. Furthermore, electrical connection is carried out to a personal computer, an adapter, etc., and the connector (pin receptacle) 18 for carrying out signal transfer is formed in the end side of this control unit 11b.

[0015] On the other hand, while an adapter 30 equips one flank of body section of adapter 30a used as a thin rectangle with the image pick-up section 31, the guide rails 32a and 32b formed along with the longitudinal direction are formed in both the sides of body section of adapter 30a.

[0016] The image pick-up section 31 consists of tumbling barrel 31b which has cylinder part 31a equipped with the taking lens. That is, electric conversion of the photographic subject **** which has carried out the interior of the C-MOS image sensor to tumbling barrel 31b, and carried out incidence through the taking lens is carried out by this image sensor, and that image pick-up signal is sent to the digital disposal circuit of body section of adapter 30a.

[0017] Moreover, this tumbling barrel 31b is made to have supported free [rotation] with the supporter 33 really formed in body section of adapter 30a. It is carrying out rotation actuation of the tumbling barrel 31b a core [the cylinder axis], and, specifically, has the composition of making it circling in cylinder part 31a, and changing bearing of the exposure axis.

[0018] If telephone 10 is made to equip with an adapter 30 and control unit 10b is inserted to the last location as guide rails 32a and 32b make the side section of control unit 10b with which telephone 10 is equipped insert, the connector pin prepared in the adapter 30 will rush into the connector 18 of control unit 10b, and electrical connection of the adapter 30 will be carried out to telephone 10.

[0019] In addition, the adapter 30 is equipped with the digital disposal circuit which processes the video signal which the image pick-up signal sent from the image pick-up section 31 and telephone 10 received, and the connector pin as a signal appearance input edge of this digital disposal circuit is prepared.

[0020] Moreover, this adapter 30 is equipped with the special power source to the power source of telephone

10. With this operation gestalt, two dry cells 34 and 35 are equipped as a power-source cell, and the battery holder 36 which makes these dry cells 34 and 35 contain is formed in flat-surface section 30b of body section of adapter 30a as the concave section. In addition, the battery holder 36 prepared in this way is formed so that the height of the contained dry cells 34 and 35 may turn into the almost same height to the field of flat-surface section 30b.

[0021] In addition, when equipping with, transmitting and receiving an adapter 30 to telephone 10, in order to transmit and carry out a receiver, looking at the image of a display 11, it transmits [as only predetermined distance is detached] from the face, and receives telephone 10. Therefore, the plug jack 37 of the plug 64 which connects with this adapter 30 with the cable 65 of the transmission-and-reception talk implement 60 is formed.

[0022] This transmission-and-reception talk implement 60 consists of headphone equipped with the loudspeaker sections (earphone) 61R and 61L, a microphone 63 made to connect with these headphone in one, and a case 65 where connected the plug 64 to the point and the base was connected to the above-mentioned loudspeaker sections 61R and 61L and an above-mentioned microphone 63 so that it may illustrate.

[0023] In addition, headphone consist of accommodation levers 67R and 67L of the spring nature which is slid on the inside of controller 66R prepared in the both ends of the support lever 66 of the spring nature which ****, and this support lever 66, and 66L, and carries out centering control of the loudspeaker sections 61R and 61L. Moreover, the microphone 63 is formed in the connection section 68 prepared in accommodation lever 67R in one. That is, by actuation, the universal joint 69 which can carry out curve formation free is made to install from the connection section 68, and the microphone 63 is formed in the point of this universal joint 69.

[0024] Drawing 2 is the block diagram in which having carried out simple [of the above-mentioned telephone 10 and the electrical circuit with which the adapter 30 was equipped], and having shown them. Each circuit which receives and carries out signal processing of the telephone number signal which telephone 10 processes the output signal of CPU which inputted the key stroke signal, and transmits the other party's telephone number signal, and is sent by the other party so that it may illustrate, While carrying out graphic display of the display according to the video signal sent from an adapter 30 besides each circuit for carrying out the transmission-and-reception talk using the loudspeaker and microphone with which this telephone 10 is equipped It has each circuit which carries out signal processing of the video signal, and is transmitted, and each circuit for carrying out graphic display of the display again according to the video signal sent by the other party.

[0025] The adapter 30 carried out signal processing of the image pick-up signal of photographic subject **** which carried out electric conversion with the C-MOS image sensor, inputted into telephone 10 delivery and the video signal which telephone 10 received so that it might illustrate, and it is equipped with each circuit which delivers and receives the transmission signal and the receiver signal for carrying out the transmission-and-reception talk using the transmission-and-reception talk implement 60 between telephones 10 besides each circuit which carries out signal processing of this video signal, and is returned to telephone 10. In addition, as an image sensor which carries out electric conversion of the photographic subject ****, the CCD image sensor other than a C-MOS image sensor may be used.

[0026] Drawing 3 makes telephone 10 equip with an adapter 30, and shows the busy condition which connects with an adapter 30, and transmits and receives the transmission-and-reception talk implement 60. Thus, it can talk over the telephone, looking at the image which receives the video signal and message signal which the photographic subject image photoed by the image pick-up section 31 by attaching an adapter 30 could project on the display 11, and the video signal and message signal could transmit with telephone 10, and were sent by the partner, and is projected on a display 11 according to the received video signal. In addition, the image which the image to transmit received into the one side fault half part of a display 11 projects on the method side fault half part of others respectively.

[0027] On the other hand, in using it in this way, it sets the transmission-and-reception talk implement 60 to a head. That is, the loudspeaker sections 61R and 61L are applied to a lug, the support lever 66 of headphone is laid in a transmission-and-reception speaker's head so that a microphone 63 may be arranged near the voice opening, and it equips so that the transmission-and-reception talk can be carried out with the transmission-and-reception talk implement 60.

[0028] With the adapter 30 attached, telephone 10 detaches only predetermined distance from the face, and a stock is carried out and it is laid on a desk etc. so that the image of a display 11 can be viewed.

[0029] Thus, since the video signal which transmitted the video signal and was sent by the other party can be projected on a display 11, carrying out the monitor of the image photoed in the image pick-up section 31 by equipping by the display 11, a receiver can be transmitted and carried out using the transmission-and-reception

talk implement 60, looking at the image of a display 11 directly.

[0030] In addition, by equipping telephone 10 with an adapter 30 as mentioned above, control unit 10b of telephone 10 comes to pile up and be put together on flat-surface section 30b of an adapter 30, and the control unit 10b blockades the clear aperture of a battery holder 36. From this, the ejection of the dry cells 34 and 35 contained to the battery holder 36 is prevented by control unit 10b. For this reason, it is not necessary to prepare the lid of a battery holder 36 for an adapter 30.

[0031] Drawing 4 shows the condition of having removed the adapter 30 from telephone 10, and having removed the transmission-and-reception talk implement 60 from the adapter 30. Since a connector pin may be bent by a certain cause or may be damaged when keeping and walking around with the adapter itself, it is desirable to have the protective cover 50 which is made to insert in guide rails 32a and 32b, and holds a connector pin.

[0032] Although this protective cover 50 serves as a configuration of the almost same magnitude as control unit 10b of telephone 10, it projects on both the sides by the side of an insertion tip, and Arms 50a and 50b are merely formed. That is, it comes to be located between protrusion arm 50a of the above [the connector pin of an adapter 30], and 50b by making a protective cover 50 insert in guide rails 32a and 32b, pushing, and equipping an adapter 30.

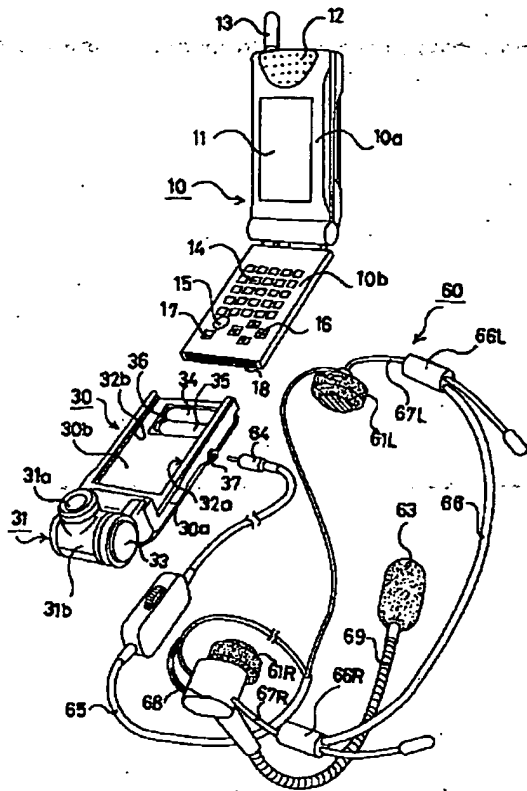
[0033] moreover -- if an adapter is equipped with a protective cover 50 -- this protective cover 50 -- flat-surface section 30b of an adapter 30, and weight **** -- the clear aperture of a battery holder 36 is blockaded with a protective cover 50 from things. Consequently, the ejection of dry cells 34 and 35 is prevented also for ***** by the protective cover 50 by the case so that only an adapter 30 may be carried.

[0034] As mentioned above, although it can carry out as an adapter which uses this invention for the same pocket mold information transmitter of not only the adapter of a portable telephone or PHS telephone but others although 1 operation gestalt was explained, about the transmission-and-reception talk implement 60, it can constitute also by the earphone with which the microphone was made to connect.

[0035]

[Effect of the Invention] This invention to the adapter for transmitting and receiving an image and a video signal as described above The circuit terminal means for making a transmission-and-reception talk signal deliver and receive between information transmitters is established. From having carried out electrical connection of the transmission-and-reception talk implement for adapters with which the earphone and the microphone were made to connect to the above-mentioned circuit terminal means, and having considered as the configuration which carries out a transmission-and-reception talk communication link The transmission-and-reception talk can be carried out using the information transmitter itself, and also the transmission-and-reception talk can be carried out using a transmission-and-reception talk implement, looking at the image projected on the display of an information transmitter.

[Translation done.]



[Translation done.]

JAPANESE

[JP,11-136655,A]

Drawing selection

Representative drawing ▾

CLAIMS DETAILED DESCRIPTION TECHNICAL
FIELD PRIOR ART EFFECT OF THE INVENTION
TECHNICAL PROBLEM MEANS OPERATION
DESCRIPTION OF DRAWINGS DRAWINGS

[Translation done.]

* NOTICES *

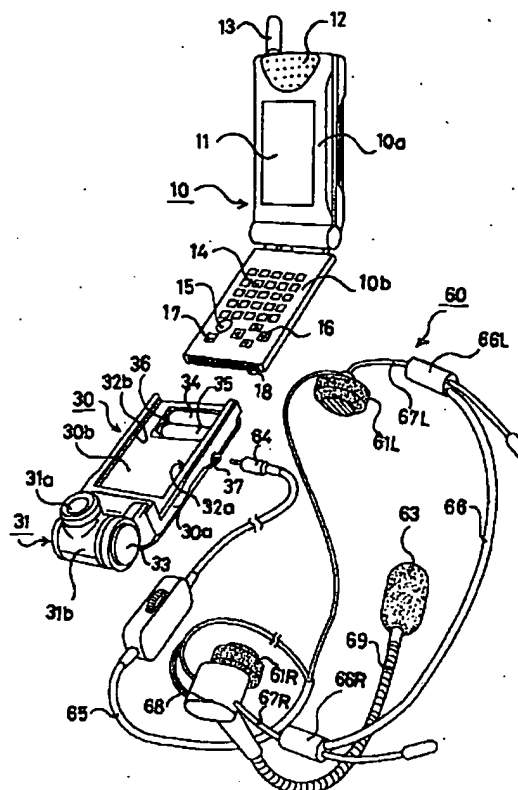
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TECHNICAL FIELD

[Field of the Invention] Pocket mold information transmitters, such as a portable telephone and PHS telephone, are equipped with this invention, and it relates to the adapter specifically equipped with the transmission-and-reception talk implement which connected the microphone with the earphone about the adapter for transmitting and receiving an image and a video signal.

[Translation done.]



[Translation done.]

JAPANESE | [JP,11-136655,A]

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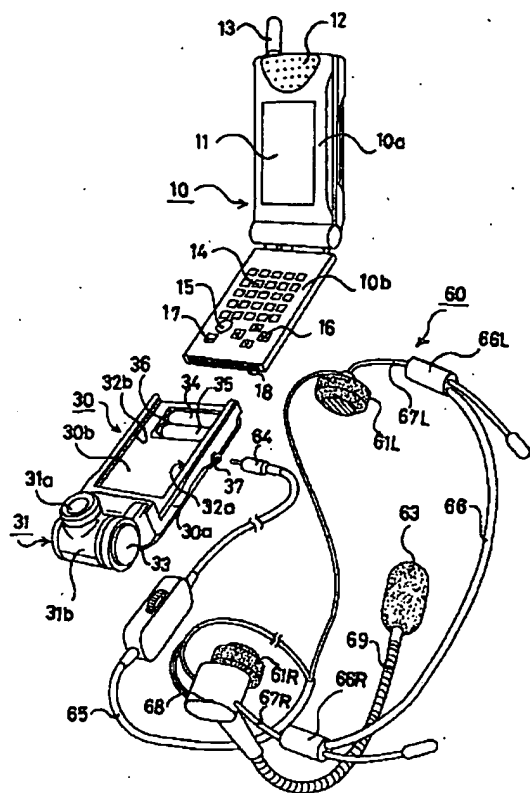
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PRIOR ART

[Description of the Prior Art] Although an image and a video signal cannot be transmitted and received since the cellular-phone machine and PHS telephone which are a pocket mold information transmitter are a transmission-and-reception talk special-purpose machine, an image and a video signal are inputted into the telephone of a pocket mold from a personal computer or a digital camera, and the communication system which transmits and receives an image and a video signal with this telephone is developed by the end of today. [0003] Moreover, equip the telephone of a pocket mold with the adapter equipped with the image pick-up function and the processing facility of an image and a video signal, and an image and a video signal are made to deliver and receive directly between an adapter and an information transmitter, and an image and a video signal are transmitted with telephone, and it receives, and the telephone with an adapter which enabled it to transmit and receive an image and a video signal between [of a pocket mold] telephones is developed. Such telephone is equipped with the display which can carry out the monitor of the image and the image which displays the received image and image, and is transmitted.

[Translation done.]

Drawing selection Representative drawing ▾

[Translation done.]

JAPANESE

[JP,11-136655,A]

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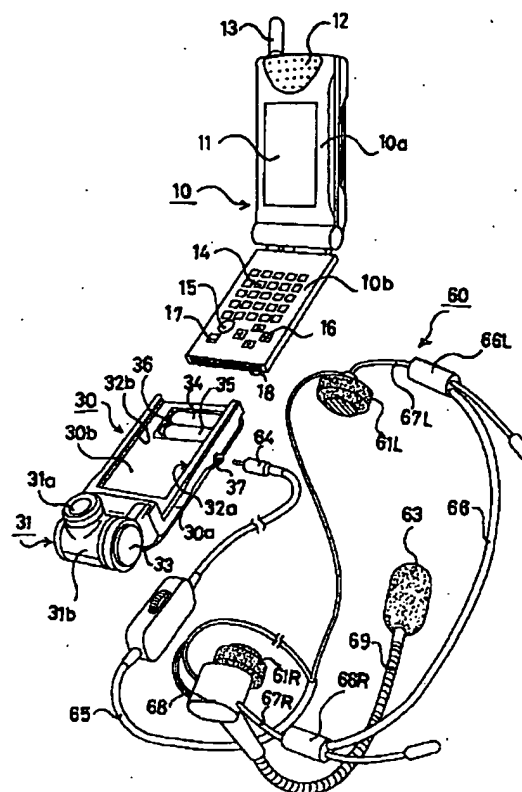
EFFECT OF THE INVENTION

[Effect of the Invention] This invention to the adapter for transmitting and receiving an image and a video signal as described above The circuit terminal means for making a transmission-and-reception talk signal deliver and receive between information transmitters is established. While the transmission-and-reception talk can be carried out using the information transmitter itself since electrical connection of the transmission-and-reception talk implement for adapters with which the earphone and the microphone were made to connect was carried out to the above-mentioned circuit terminal means and it considered as the configuration which carries out a transmission-and-reception talk communication link, and also looking at the image projected on the display of an information transmitter The transmission-and-reception talk can be carried out using a transmission-and-reception talk implement.

[Translation done.]

Drawing selection

Representative drawing ▾



[Translation done.]

JAPANESE [JP,11-136655,A]

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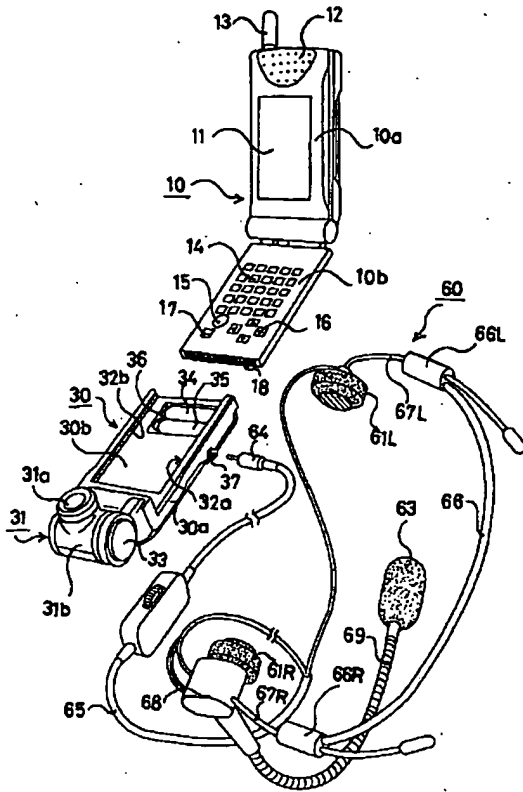
TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] Although the monitor of the image and the image which the telephone of the pocket mold which equips with an adapter, and transmits and receives an image and a video signal displays the received image and image on a display, and is transmitted can be displayed and carried out to a display This kind of telephone cannot apply the loudspeaker section to a lug, and a transmission-and-reception during the conversation cannot see the image and image projected on the display by the relation which the microphone section is located near the voice opening and carries out the transmission-and-reception talk.

[0005] Although it is possible for such telephone to make memory once memorize the image and video signal which are transmitted and received, to read an image and a video signal from memory after the transmission-and-reception talk, and to also make it display on a display, however if a receiver can be transmitted and carried out, looking at the image and image which were projected on the display directly, it will become the most desirable telephone communication system adapted to the actual condition.

[0006] This invention uses the transmission-and-reception talk implement for adapters in view of the above-mentioned actual condition, and it aims at offering adapters for information transmitters, such as telephone of the pocket mold which can carry out the transmission-and-reception talk, viewing the image and image of the display of an information transmitter.

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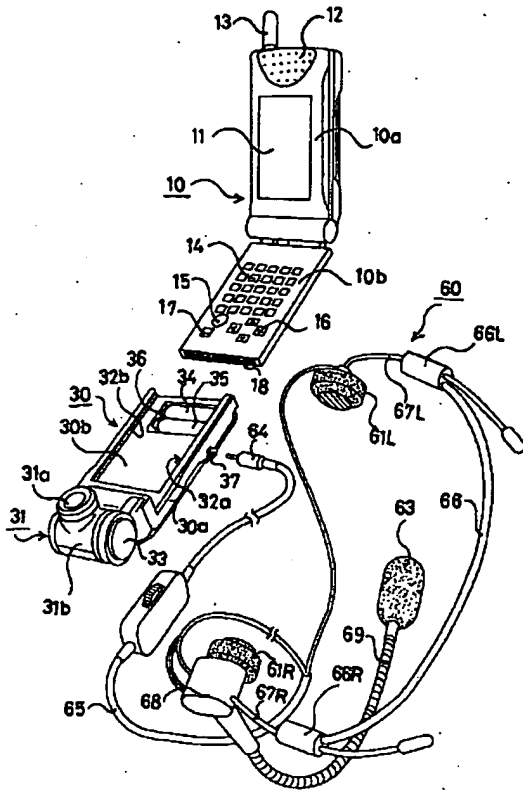
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MEANS

[Means for Solving the Problem] In order to attain the above-mentioned purpose, information transmitters, such as telephone of the pocket mold which has the display which displays an alphabetic character, and an image and an image, are equipped with this invention, and it relates to the adapter for transmitting and receiving an image and a video signal with an information transmitter.

[0008] And the circuit terminal means for making the adapter of this invention deliver and receive a transmission-and-reception talk signal between information transmitters is established, on the other hand, the transmission-and-reception talk implement for adapters with which the earphone and the microphone were made to connect is formed, and it has composition which carries out electrical connection of this transmission-and-reception talk implement to the circuit terminal means of an adapter with a cable.

[Translation done.]

Drawing selection Representative drawing ▾

[Translation done.]

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OPERATION

[Function] By equipping an information transmitter with an adapter, an image and an image can be transmitted and received with the information transmitter other than a transmission-and-reception talk communication link with this information transmitter. And an image and the image transmitted and received can be projected on the display of an information transmitter.

[0010] Moreover, if a transmission-and-reception talk implement is connected to an adapter, a transmission-and-reception talk communication link can be performed using this transmission-and-reception talk implement. A transmission-and-reception talk implement is set so that an earphone may be applied to a lug and it may specifically become near the utterance opening which is a vocal organ about a microphone. In this busy condition, since the transmission-and-reception talk can be carried out with a transmission-and-reception talk implement even if it detaches the information transmitter equipped with an adapter from a transmission-and-reception speaker in the range which can view the image and image of a display, a receiver can be transmitted and carried out, looking at directly the image and image projected on the display.

[0011]

[Embodiment of the Invention] Next, 1 operation gestalt of this invention is explained along with a drawing. Drawing 1 is the perspective view showing the telephone 10 of a pocket mold, the adapter 30 for transmitting and receiving an image and a video signal (only henceforth a "video signal"), and the transmission-and-reception talk implement 60.

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[0014] Moreover, control unit 11b is equipped with the microphone 15, volume control / function selection key 16, the electric power switch 17, etc. other than each keys 14, such as a ten key as a telephone dial, a function key, and a switch on hook. Furthermore, electrical connection is carried out to a personal computer, an adapter, etc., and the connector (pin receptacle) 18 for carrying out signal transfer is formed in the end side of this control unit 11b.

[0015] On the other hand, while an adapter 30 equips one flank of body section of adapter 30a used as a thin rectangle with the image pick-up section 31, the guide rails 32a and 32b formed along with the longitudinal direction are formed in both the sides of body section of adapter 30a.

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[0020] Moreover, this adapter 30 is equipped with the special power source to the power source of telephone 10. With this operation gestalt, two dry cells 34 and 35 are equipped as a power-source cell, and the battery holder 36 which makes these dry cells 34 and 35 contain is formed in flat-surface section 30b of body section of adapter 30a as the concave section. In addition, the battery holder 36 prepared in this way is formed so that the height of the contained dry cells 34 and 35 may turn into the almost same height to the field of flat-surface section 30b.

[0021] In addition, when equipping with, transmitting and receiving an adapter 30 to telephone 10, in order to transmit and carry out a receiver, looking at the image of a display 11, it transmits [as only predetermined distance is detached] from the face, and receives telephone 10. Therefore, the plug jack 37 of the plug 64 which connects with this adapter 30 with the cable 65 of the transmission-and-reception talk implement 60 is formed.

[0022] This transmission-and-reception talk implement 60 consists of headphone equipped with the loudspeaker sections (earphone) 61R and 61L, a microphone 63 made to connect with these headphone in one, and a case 65 where connected the plug 64 to the point and the base was connected to the above-mentioned loudspeaker sections 61R and 61L and an above-mentioned microphone 63 so that it may illustrate.

[0023] In addition, headphone consist of accommodation levers 67R and 67L of the spring nature which is slid on the inside of controller 66R prepared in the both ends of the support lever 66 of the spring nature which ****, and this support lever 66, and 66L, and carries out centering control of the loudspeaker sections 61R and 61L. Moreover, the microphone 63 is formed in the connection section 68 prepared in accommodation lever 67R in one. That is, by actuation, the universal joint 69 which can carry out curve formation free is made to install from the connection section 68, and the microphone 63 is formed in the point of this universal joint 69.

[0024] Drawing 2 is the block diagram in which having carried out simple [of the above-mentioned telephone 10 and the electrical circuit with which the adapter 30 was equipped], and having shown them. Each circuit which receives and carries out signal processing of the telephone number signal which telephone 10 processes the output signal of CPU which inputted the key stroke signal, and transmits the other party's telephone number signal, and is sent by the other party so that it may illustrate, While carrying out graphic display of the display according to the video signal sent from an adapter 30 besides each circuit for carrying out the transmission-and-reception talk using the loudspeaker and microphone with which this telephone 10 is equipped It has each circuit which carries out signal processing of the video signal, and is transmitted, and each circuit for carrying out graphic display of the display again according to the video signal sent by the other party.

[0025] The adapter 30 carried out signal processing of the image pick-up signal of photographic subject **** which carried out electric conversion with the C-MOS image sensor, inputted into telephone 10 delivery and the video signal which telephone 10 received so that it might illustrate, and it is equipped with each circuit which delivers and receives the transmission signal and the receiver signal for carrying out the transmission-and-reception talk using the transmission-and-reception talk implement 60 between telephones 10 besides each circuit which carries out signal processing of this video signal, and is returned to telephone 10. In addition, as an image sensor which carries out electric conversion of the photographic subject ****, the CCD image sensor other than a C-MOS image sensor may be used.

[0026] Drawing 3 makes telephone 10 equip with an adapter 30, and shows the busy condition which connects with an adapter 30, and transmits and receives the transmission-and-reception talk implement 60. Thus, it can talk over the telephone, looking at the image which receives the video signal and message signal which the photographic subject image photoed by the image pick-up section 31 by attaching an adapter 30 could project on the display 11, and the video signal and message signal could transmit with telephone 10, and were sent by the partner, and is projected on a display 11 according to the received video signal. In addition, the image which the image to transmit received into the one side fault half part of a display 11 projects on the method side fault half part of others respectively.

[0027] On the other hand, in using it in this way, it sets the transmission-and-reception talk implement 60 to a head. That is, the loudspeaker sections 61R and 61L are applied to a lug, the support lever 66 of headphone is

laid in a transmission-and-reception speaker's head so that a microphone 63 may be arranged near the voice opening, and it equips so that the transmission-and-reception talk can be carried out with the transmission-and-reception talk implement 60.

[0028] With the adapter 30 attached, telephone 10 detaches only predetermined distance from the face, and a stock is carried out and it is laid on a desk etc. so that the image of a display 11 can be viewed.

[0029] Thus, since the video signal which transmitted the video signal and was sent by the other party can be projected on a display 11, carrying out the monitor of the image photoed in the image pick-up section 31 by equipping by the display 11, a receiver can be transmitted and carried out using the transmission-and-reception talk implement 60, looking at the image of a display 11 directly.

[0030] In addition, by equipping telephone 10 with an adapter 30 as mentioned above, control unit 10b of telephone 10 comes to pile up and be put together on flat-surface section 30b of an adapter 30, and the control unit 10b blockades the clear aperture of a battery holder 36. From this, the ejection of the dry cells 34 and 35 contained to the battery holder 36 is prevented by control unit 10b. For this reason, it is not necessary to prepare the lid of a battery holder 36 for an adapter 30.

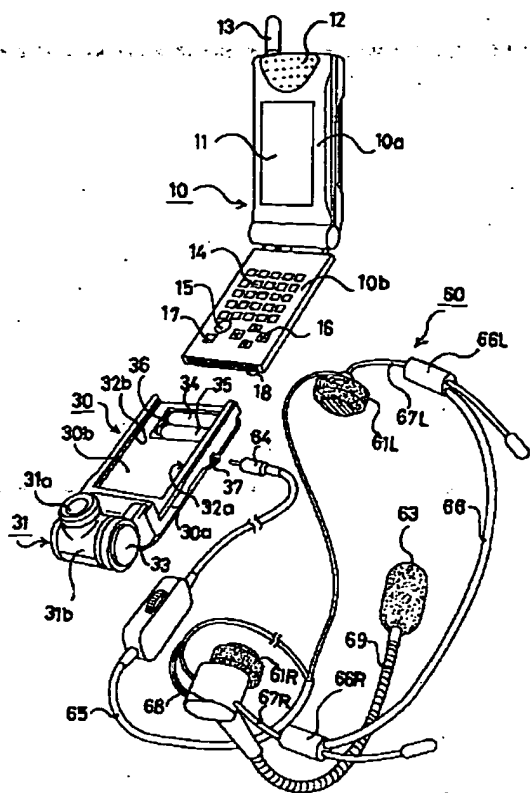
[0031] Drawing 4 shows the condition of having removed the adapter 30 from telephone 10, and having removed the transmission-and-reception talk implement 60 from the adapter 30. Since a connector pin may be bent by a certain cause or may be damaged when keeping and walking around with the adapter itself, it is desirable to have the protective cover 50 which is made to insert in guide rails 32a and 32b, and holds a connector pin.

[0032] Although this protective cover 50 serves as a configuration of the almost same magnitude as control unit 10b of telephone 10, it projects on both the sides by the side of an insertion tip, and Arms 50a and 50b are merely formed. That is, it comes to be located between protrusion arm 50a of the above [the connector pin of an adapter 30], and 50b by making a protective cover 50 insert in guide rails 32a and 32b, pushing, and equipping an adapter 30.

[0033] moreover -- if an adapter is equipped with a protective cover 50 -- this protective cover 50 -- flat-surface section 30b of an adapter 30, and weight **** -- the clear aperture of a battery holder 36 is blockaded with a protective cover 50 from things. Consequently, the ejection of dry cells 34 and 35 is prevented also for ***** by the protective cover 50 by the case so that only an adapter 30 may be carried.

[0034] As mentioned above, although it can carry out as an adapter which uses this invention for the same pocket mold information transmitter of not only the adapter of a portable telephone or PHS telephone but others although 1 operation gestalt was explained, about the transmission-and-reception talk implement 60, it can constitute also by the earphone with which the microphone was made to connect.

[Translation done.]



[Translation done.]

JAPANESE | [JP,11-136655,A]

CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION
TECHNICAL PROBLEM MEANS OPERATION DESCRIPTION OF DRAWINGS DRAWINGS

[Translation done.]

* NOTICES *

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1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the perspective view showing the telephone, adapter, and transmission-and-reception talk implement of a pocket mold.

[Drawing 2] It is the simple block diagram of an electrical circuit with which telephone and an adapter were made to equip.

[Drawing 3] While equipping telephone with an adapter, it is the perspective view showing the busy condition which attached the transmission-and-reception talk implement to an adapter.

[Drawing 4] It is the perspective view showing the adapter removed from telephone, and a protective cover.

[Description of Notations]

10 Telephone

10a Body section

10b Control unit

11 Display

12 Loudspeaker

15 Microphone

18 Connector

30 Adapter

30a Body section of an adapter

31 Image Pick-up Section

32a, 32b Guide rail

34 35 Dry cell

36 Battery Holder

37 Jack

50 Protective Cover

60 Transmission-and-Reception Talk Implement

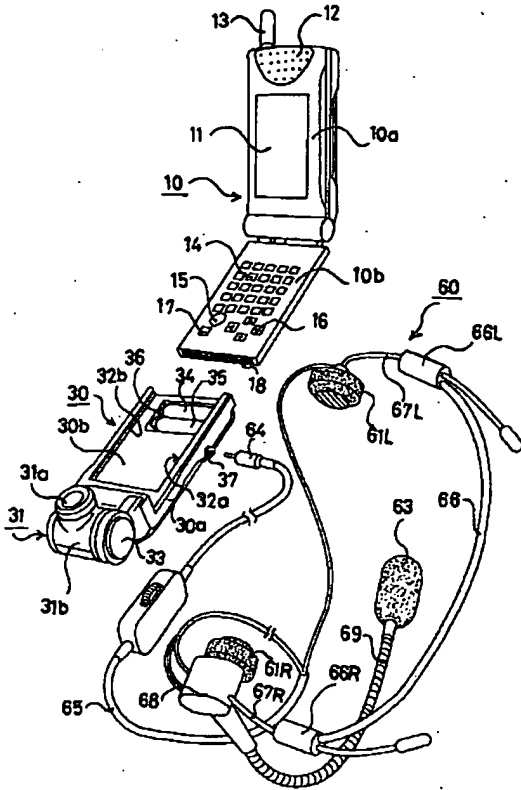
61R, 61L Loudspeaker section

63 Microphone

64 Plug

65 Cable

[Translation done.]

Drawing selection Representative drawing ▾

[Translation done.]

JAPANESE | [JP,11-136655,A]

CLAIMS DETAILED DESCRIPTION TECHNICAL FIELD PRIOR ART EFFECT OF THE INVENTION
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[Translation done.]

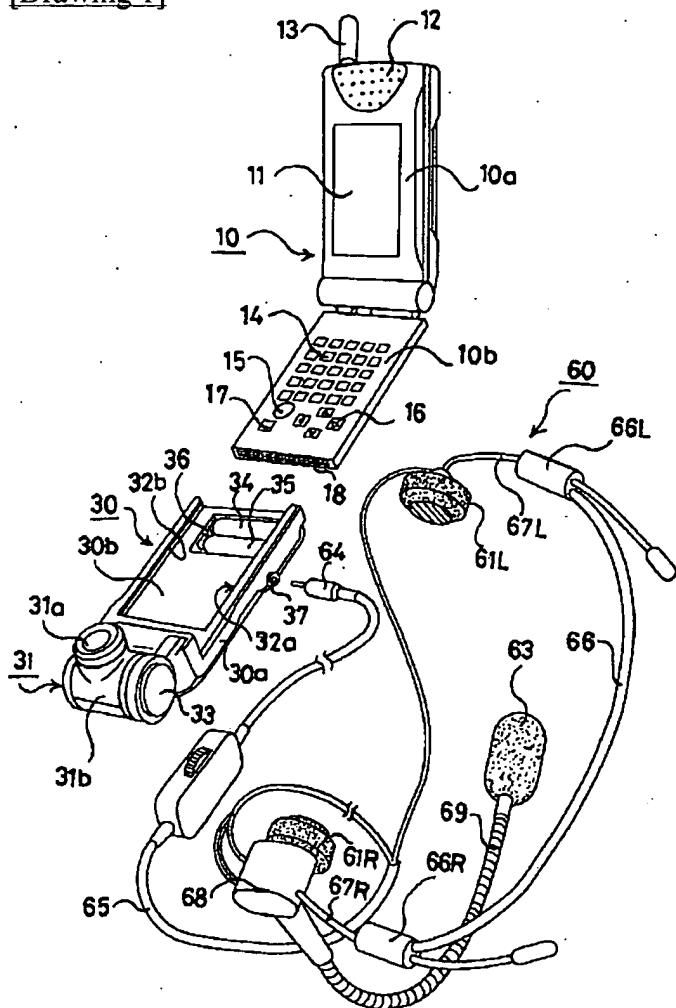
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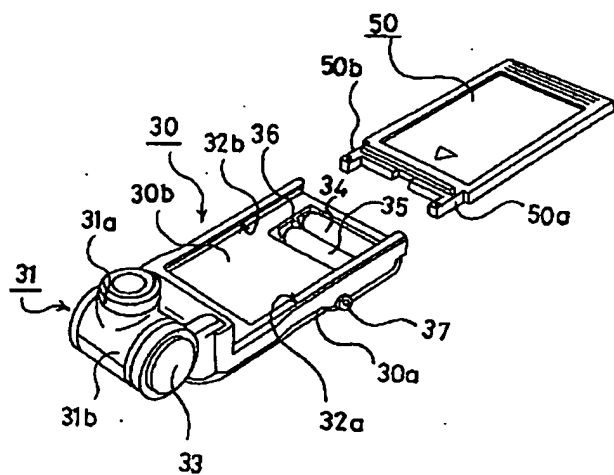
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DRAWINGS

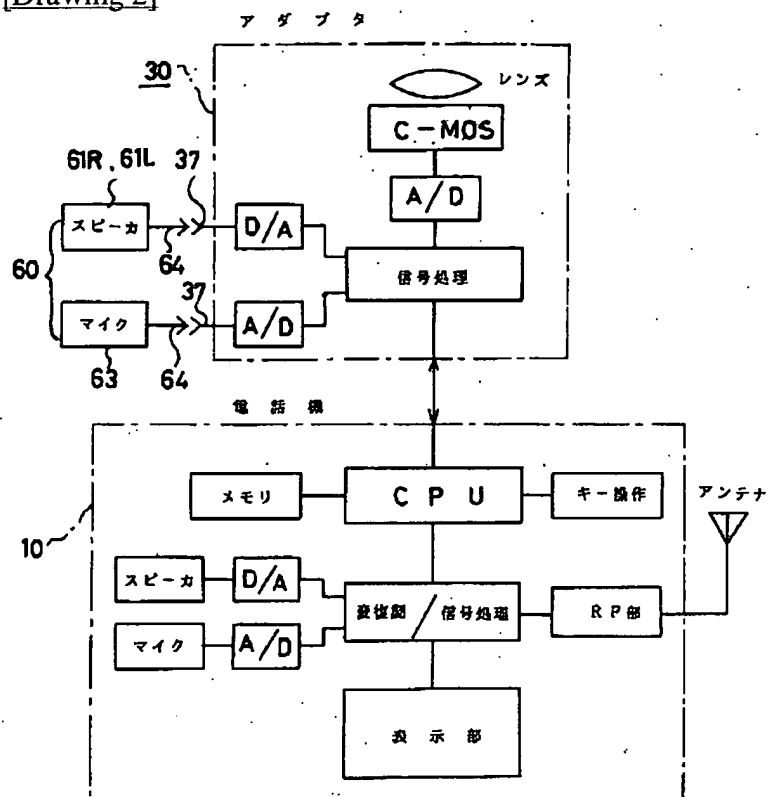
[Drawing 1]



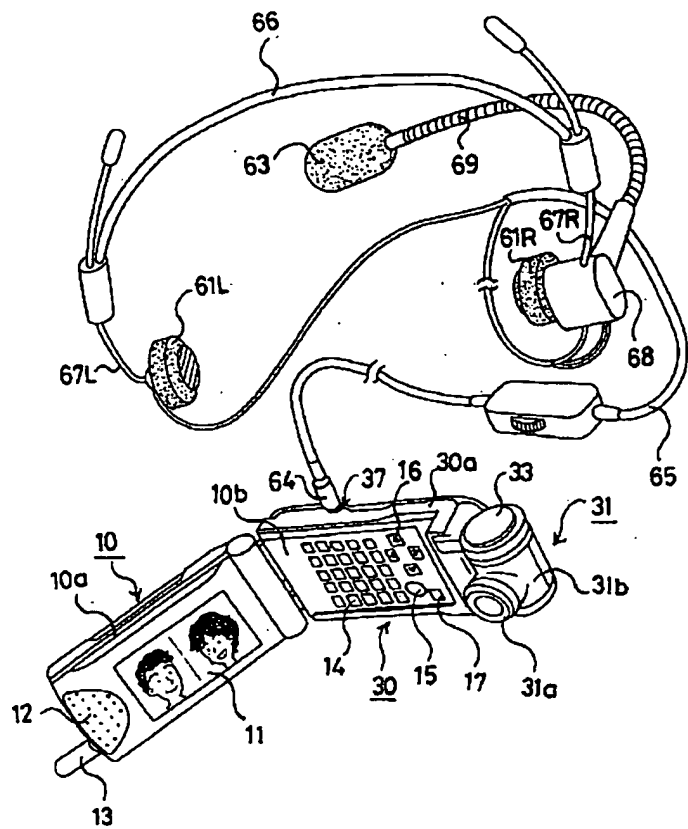
[Drawing 4]



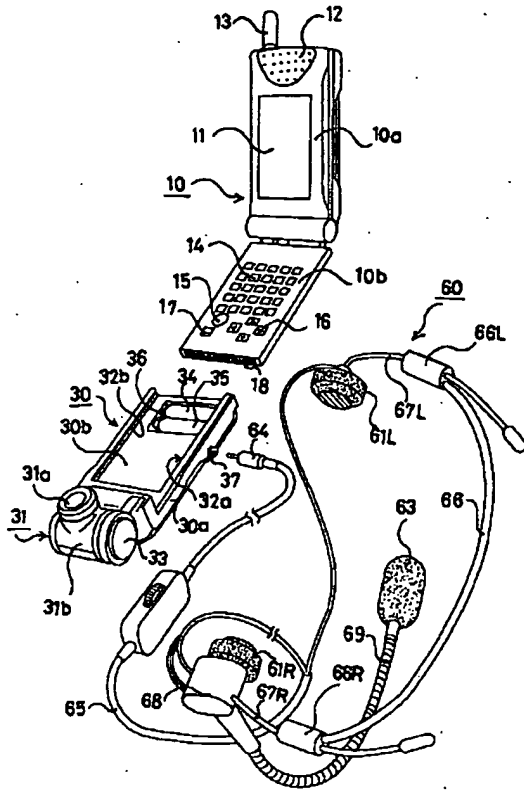
[Drawing 2]



[Drawing 3]



[Translation done.]

Drawing selection Representative drawing ▾

[Translation done.]

